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*NBS TT 70-57538
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Influence of the Anisotropy of Steel Plates on the
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Improvements in the Continuous Electromagnetic
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Square Billets of Mild Basic Converter Rimming
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May 1961, pp 343-349.
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Surface Tension of Liquid Iron and Its Alloys.
Part I, by P. Kozakevitch, G. Urbain.

PRIMOCHEM, par, Revue Metallurgie Mémoires
Scientifiques, Vol LVIII, Jun 1961, pp 401-413.

BISHI 2609

Sci - Min/Metals

189, 071

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Gabrovec, M., Plateau, J. and others.
SOME TESTS CONCERNING THE ROLE OF TIN IN
STEELS. II. INFLUENCE OF TIN ON THE LOW
TEMPERATURE MECHANICAL PROPERTIES (In-
fluence de l'Étain sur les Propriétés Mécaniques à
Froid du Fer et des Aciers). Dec 61 [20]p. (foreign
text included) 9 refn.
Order from SLA \$1.60

62-10451

Trans. of Revue de Metallurgie, Memoires
Scientifiques (France) 1961, v. 58, no. 6, p. 440-448.

DESCRIPTORS: *Tin, *Steel, Heat treatment,
Mechanical properties, Iron alloys, Carbon alloys,
Tin alloys, Aluminum alloys.

In the majority of the cases the presence of tin in steel
causes a decrease of ductility, which increases when
the tin content is raised, and which depends on the heat
treatment. This decrease of ductility is always as-
(Metallurgy, TT, v. 7, no. 9) (over)

62-10451

I. Gabrovec, M.
II. Plateau, J.
III. Title: Influence...

Office of Technical Services

Direct Determination of Sulphur, Phosphorus,
Carbon, and Silicon in Steel, by Means of Emission
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FRENCH, M per, Memoires (Les) Scientifiques
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BISI 2602

Sci - m/m

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Study of Phosphating Films With X-Rays and
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FRENCH, per, Memoires (Les) Scientifiques de la
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BIBI 2707

Sci - Phys

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LUDERS' BANDS AND PORTEVIN-LE CHATELIER
PHENOMENON. [1961] [21]p. 12 refs.
Order from SLA \$2.60 62-10304

Trans. of Revue de Métallurgie. Mémoires
Scientifiques (France) 1961, v. 58, no. 7, p.
p. 510-516.

DESCRIPTORS: *Plasticity, *Deformation, Atomic
structure, Solids, Solutions, Alloys, Impurities,
Dislocations, Metals, Aging, Temperature,
Stresses, Relaxation time.

The time required for atoms of impurities to block
the dislocations of a solid solution can be calculated.
This time varies greatly from one alloy to another,
and this variation explains that of the phenomena
(Physics - Solid State, TT, v. 7, no. 9) (over)

62-10304

1. Title: Luders' bands
2. Title: Portevin - Le
Chatelier phenomenon

I. Guillot-Micard, J.
II. Caisso, J.

Office of Technical Services

Surface Tension of Molten Iron and Its Alloys,
Part II, by P. Kozakevitch, G. Urbain.

FRENCH, per, Mémoires (Les) Scientifiques de la
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MISI 2609

Sci - m/n
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Study of Some Phenomena Relating to the
Precipitation of Carbides in Ni/Cr Austenitic
Steels, by J. Philibert, G. Henry, M. Robert,
et al.

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Revue Metallurgie, Vol LVIII, Aug 1961, pp 557-573.

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Sci - Chem

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Contribution to the Study of Oxidation of
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J. Paidassi, J. Lopez.

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Sep 1961, pp 677-698.

BIBI 301.7

Sci - m/m

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Study of the Electrical Resistivity of Zirconium,
Application to the Study of the Recrystallization
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by L. Remucci, J. P. Langeron, P. Lehr, 26 pp.

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Vol LVIII, 1961, pp 699-715. 9099903

AEC Tr-5035

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14 pp.

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AEC EW Tr-37

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The Deformation of Metals and Alloys by Torsion at High Temperatures, by D. Hardwick, W. J. Tegart.

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BISI 2995

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Contribution to the Study of the Effect of Nickel
(up to 5%) on the Mechanical Properties of Steels
at Low Temperature, by M. Kron, A. Constant,
A. Clerc, et al.

FRENCH, par, Mémoires (Les) Scientifiques de la
Revue Métallurgie, Vol LVIII, Dec 1961, pp 901-914.

BIST 2690

Sci - m/m

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Jul 62

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RESEARCH INTO THE USE OF GERMANIUM IN THE
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V. RIXHON.

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REVUE METALLURGIE, VOL LVIII, NO 12, 1961,
PP 915-926.

BISI 2786

SCI - MIN/ METALS

AUG 11/
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